

## PRODUCT INFORMATION

### HYDREPAIR® FLOWER BIO COMPLEX



#### Natural Moisture and Regeneration

As the largest human organ, the skin fulfils a wide variety of different functions: sensory function, mechanical protection, barrier function, protection against UV light and temperature regulation. In order to perform these important tasks, an external and internal supply of nutrients, trace elements and skin-conditioning substances are necessary. Frequent washing and disinfecting puts a strain on the skin's protective function. Botanica has developed a purely natural HYDRepair® Flower Bio Complex which optimally supports moisturizing and regenerating cosmetic formulations.

**Botanica**<sup>®</sup>  
An Evonik company.

My plant extracts, naturally

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### Composition:

#### Organic Honey: moisturizing & wound healing

Honey contains glucose, fructose, amino acids, enzymes, proteins, minerals and vitamins [1]. Due to its excellent soothing, moisturizing, antimicrobial and wound healing properties, the cosmetic and medicinal use of honey goes back several centuries [1]. *In vitro* and *in vivo* studies demonstrate the strong wound repair ability of honey, which can mainly be attributed to improved keratinocyte proliferation, which is accelerated by epithelialization (overgrowth of the wound with epithelial cells) [2,3].

#### Organic Red Clover Extract: wound healing

In traditional medicine, the dried red clover flowers are used for their anti-inflammatory, calming and antiseptic effects and as a wound healing agent. Red clover contains isoflavones and triterpene saponins, to which the *in vivo* demonstrated wound healing effect can be attributed [4].

#### Organic Sempervivum Juice: wound healing, cell regenerating

Houseleek (*Sempervivum tectorum*) contains polyphenols, tannins, proanthocyanidins and a high variety of flavonoids, which have been shown to have antioxidant, anti-inflammatory and antimicrobial effects [5,6,7]. An *in vitro* scratch assay performed on human keratinocytes showed a wound healing and cell regenerating activity of the organic Sempervivum juice similar to organic Aloe Vera juice, which was tested for comparison [8].

#### Organic Glycerin: moisturizing

Glycerin is a natural component of animal and vegetable fats and oils. It is used for various functions in cosmetics, mainly as a moisturizer [9].

### Additional Information

Botanica Product Number:	P-00025833, see specification
Organic & Natural Cosmetic:	compliant, see specification
Origin:	100% natural, 100% organic, free from coconut & palm oil
Extraction Process:	Maceration, without addition of water

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